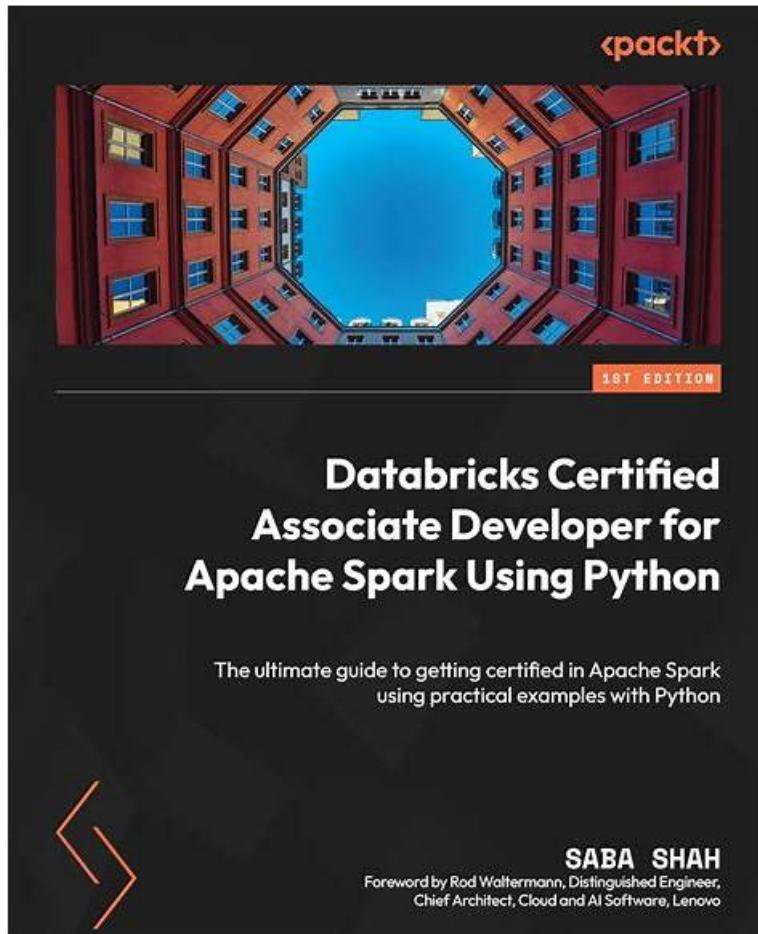


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Questions [2025]

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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q52-Q57):

NEW QUESTION # 52

What is the behavior for function date_sub(start, days) if a negative value is passed into the days parameter?

- A. An error message of an invalid parameter will be returned
- B. The number of days specified will be removed from the start date
- C. The same start date will be returned
- D. The number of days specified will be added to the start date

Answer: D

Explanation:

The function date_sub(start, days) subtracts the number of days from the start date. If a negative number is passed, the behavior becomes a date addition.

Example:

```
SELECT date_sub('2024-05-01', -5)
```

-- Returns: 2024-05-06

So, a negative value effectively adds the absolute number of days to the date.

NEW QUESTION # 53

In the code block below,aggDFcontains aggregations on a streaming DataFrame:

```
1. aggDF \
2.     .writeStream \
3.     .outputMode("complete") \
4.     .format("console") \
5.     .start()
```

Which output mode at line 3 ensures that the entire result table is written to the console during each trigger execution?

- A. replace
- B. complete
- C. append
- D. aggregate

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The correct output mode for streaming aggregations that need to output the full updated results at each trigger is "complete".

From the official documentation:

"complete: The entire updated result table will be output to the sink every time there is a trigger." This is ideal for aggregations, such as counts or averages grouped by a key, where the result table changes incrementally over time.

append: only outputs newly added rows

replace and aggregate: invalid values for output mode

Reference: Spark Structured Streaming Programming Guide # Output Modes

NEW QUESTION # 54

A data scientist is working on a project that requires processing large amounts of structured data, performing SQL queries, and applying machine learning algorithms. The data scientist is considering using Apache Spark for this task. Which combination of Apache Spark modules should the data scientist use in this scenario?

Options:

- A. **Spark DataFrames, Spark SQL, and MLlib**
- B. Spark Streaming, GraphX, and Pandas API on Spark
- C. Spark SQL, Pandas API on Spark, and Structured Streaming
- D. Spark DataFrames, Structured Streaming, and GraphX

Answer: A

Explanation:

Comprehensive

To cover structured data processing, SQL querying, and machine learning in Apache Spark, the correct combination of components is:

Spark DataFrames: for structured data processing

Spark SQL: to execute SQL queries over structured data

MLlib: Spark's scalable machine learning library

This trio is designed for exactly this type of use case.

Why other options are incorrect:

A: GraphX is for graph processing - not needed here.

B: Pandas API on Spark is useful, but MLlib is essential for ML, which this option omits.

C: Spark Streaming is legacy; GraphX is irrelevant here.

NEW QUESTION # 55

A data engineer is working on a real-time analytics pipeline using Apache Spark Structured Streaming. The engineer wants to process incoming data and ensure that triggers control when the query is executed. The system needs to process data in micro-batches with a fixed interval of 5 seconds.

Which code snippet the data engineer could use to fulfil this requirement?

A)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(continuous='5 seconds') \
    .start()
```

B)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger() \
    .start()
```

C)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime='5 seconds') \
    .start()
```

D)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime=5000) \
    .start()
```

Options:

- A. Uses trigger(continuous='5 seconds') - continuous processing mode.

- B. Uses trigger() - default micro-batch trigger without interval.
- C. Uses trigger(processingTime=5000) - invalid, as processingTime expects a string.
- D. **Uses trigger(processingTime='5 seconds')** - correct micro-batch trigger with interval.

Answer: D

Explanation:

To define a micro-batch interval, the correct syntax is:

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime='5 seconds') \
    .start()
```

This schedules the query to execute every 5 seconds.

Continuous mode (used in Option A) is experimental and has limited sink support.

Option D is incorrect because processingTime must be a string (not an integer).

Option B triggers as fast as possible without interval control.

NEW QUESTION # 56

Given this view definition:

```
df.createOrReplaceTempView('users_vw')
```

Which approach can be used to query the users_vw view after the session is terminated?

Options:

- A. Query the users_vw using Spark
- B. **Persist the users_vw data as a table**
- C. Recreate the users_vw and query the data using Spark
- D. Save the users_vw definition and query using Spark

Answer: B

Explanation:

Temp views like createOrReplaceTempView are session-scoped.

They disappear once the Spark session ends.

To retain data across sessions, it must be persisted:

```
df.write.saveAsTable("users_vw")
```

Thus, the view needs to be persisted as a table to survive session termination.

NEW QUESTION # 57

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